

AD-A219 384

# ENVIRONMENTAL ASSESSMENT

## SUGAR BOTTOM DAY USE ACCESS ROAD CORALVILLE RESERVOIR JOHNSON COUNTY , IOWA

DECEMBER 1987



US Army Corps  
of Engineers  
Rock Island District

DTIC  
ELECTE  
MAR 20 1990  
S B D

CONTRIBUTION STATEMENT A

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ENVIRONMENTAL ASSESSMENT

SUGAR BOTTOM DAY USE ACCESS ROAD  
CORALVILLE RESERVOIR  
JOHNSON COUNTY, IOWA

DECEMBER 1987

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CORALVILLE RESERVOIR  
JOHNSON COUNTY, IOWA

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Distribution/	
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## ENVIRONMENTAL ASSESSMENT

### SUGAR BOTTOM DAY USE ACCESS ROAD CORALVILLE RESERVOIR JOHNSON COUNTY, IOWA

#### I. PURPOSE AND NEED FOR ACTION.

The Rock Island District, Corps of Engineers, proposes to construct a day use access road to the Sugar Bottom Recreation Area at Coralville Reservoir, Johnson County, Iowa. The reservoir was placed in operation in 1958. Its primary purpose is flood control, with recreation and wildlife as secondary purposes. Sugar Bottom Recreation Area is located on the east side of the reservoir. Access is by a 1.6-mile-long paved road off of County Highway F-28 (see Plate 1 - General Vicinity Map). Currently, all traffic at Sugar Bottom must pass through the campground. A separate day use access road would reduce traffic congestion on the existing roadway by providing an alternate route to the day use area. Further, the new roadway would improve safety conditions in the recreation area.

#### II. PROJECT DESCRIPTION.

The project involves construction of an access road to the Sugar Bottom Day Use Area. The road will be 2,800 feet long and 24 feet wide, including shoulders. It will initially consist of gravel, serving as a base for the application of asphalt at a future time. Two parking lots also will be constructed at the day use area. The larger lot would be 200 by 60 feet, the smaller 24 by 120 feet. Plate 2 shows the site location of the road and parking lots.

#### III. ALTERNATIVES.

A. No Federal Action - Under this alternative, no action would be taken. This would not provide for the alleviation of traffic congestion, and safety hazards would remain.

B. Preferred Alternative - This alternative proposes the construction of a day use access road and parking lots as described under "Project Description" above.

C. No other alternatives have been identified.

#### IV. AFFECTED ENVIRONMENT.

The northern portion of the proposed road would pass through a 7-acre prairie restoration plot. This plot was planted prior to the need for the access road. Prairie plantings include big bluestem (Andropogon gerardii),

little bluestem (Schizachyrium scoparium), Indian grass (Sorghastrum nutans), and switchgrass (Panicum virgatum).

The southern portion of the proposed road passes through old field succession habitat. Vegetation includes brome grass (Bromus sp.), goldenrod (Solidago sp.), and common milkweed (Asclepias syriaca). Immature honey locust (Gleditsia triacanthos), Siberian elm (Ulmus pumila), black cherry (Prunus serotina), and a few cedar (Juniperus virginiana) also occur.

At the northern end of the access road exists a small wooded lot. Common species include hackberry (Celtis occidentalis), mulberry (Morus alba), silver maple (Acer saccharinum), and box elder (Acer negundo). An old abandoned farm trail runs through the middle of the lot.

The planted prairie and old field provide habitat for a number of animal species including the cottontail rabbit, ring-necked pheasant, eastern meadowlark, mice, voles, and American goldfinch. The combination of nearby forest with these open spaces also provides ideal edge habitat for white-tailed deer, turkey, coyote, fox, red-tailed hawk, great-horned and barred owls, and American kestrel.

#### V. ENVIRONMENTAL CONSEQUENCES OF THE PREFERRED ACTION.

The effects of the preferred plan are summarized in table EA-1.

##### A. Social Impacts of Preferred Alternative.

1. Noise. Minor, temporarily elevated noise levels from equipment would occur during construction of the projects. All work would be done on Federal land. No homes, schools, or hospitals are near the project sites, and no significant impacts are expected.

TABLE EA-1

Effects of the Recommended Plan on  
Natural and Cultural Resources

<u>Type of Resources</u>	<u>Authorities</u>	<u>Evaluation of Effects</u>
Air quality	Clean Air Act, as amended (42 U.S.C. 1857h-7, et seq.)	No significant effect.
Areas of particular concern within the coastal zone	Coastal Zone Management Act of 1972, as amended (16 U.S.C. 1451, et seq.)	Not present in planning area.
Endangered and threatened species critical habitat	Endangered Species Act of 1973, as amended (16 U.S.C. 1531, et seq.)	No effect.
Fish and wildlife habitat	Fish and Wildlife Coordination Act (16 U.S.C. 661, et seq.)	No significant effect.
Floodplains	Executive Order 11968, Flood Plain Management	No effect.
Historic and cultural properties	National Historic Preservation Act of 1966, as amended (16 U.S.C. 470, et seq.)	No effect.
Prime and unique farmland	CEQ Memorandum of 1 August 1980; Analysis of Impacts on Prime or Unique Agricultural Lands in Implementing the National Environ- mental Policy Act	No significant effect.
Water quality	Clean Water Act of 1977, as amended (33 U.S.C. 1251, et seq.)	No significant effect.
Wetlands	Executive Order 11990, Protection of Wetlands, Clean Water Act of 1977, as amended (42 U.S.C. 1857h-7, et seq.)	Not present in planning area.
Wild and scenic rivers	Wild and Scenic Rivers Act, as amended (16 U.S.C. 1271, et seq.)	Not present in planning area.

2. Displacement of People. No relocations would be required for the project.

3. Aesthetic Values. No significant impacts are anticipated. The proposed road would blend well with the other recreational features in the area. The construction impacts will be reduced once the road shoulders are reseeded.

4. Community Cohesion. The project is located within the Coralville Reservoir recreation complex near a campground and a day use area. Due to the nature of the project and its limited area of influence, no impacts to community cohesion would be noticed. However, recreationists using affected facilities would likely have a more positive attitude about the area.

5. Community and Regional Growth. No significant impacts to the growth of the community or the region would result from the proposed road construction.

B. Economic Impacts of the Preferred Action.

1. Property Values and Tax Revenues. The value of the affected campground and day use area might increase slightly as a result of the additional access road. However, this land is in Federal ownership, so an increase in its value would not increase local tax revenues.

2. Public Facilities and Services. The proposed roadway would create an additional access point onto the main road leading into the public use area, thereby increasing the potential for intersection-type accidents. However, the proposed roadway at its tieoff is designed to avoid blind spots and would increase overall safety by directing day use traffic outside of the campground area. The roadway also would enhance the recreational facilities at the reservoir, further fulfilling the needs of the general public within Johnson County and outlying areas.

3. Employment and Labor Force. Construction of the roadway would slightly impact short-term employment in the project area. Based on the small scale of the project, few employees would be required; the surrounding communities have a labor pool of large enough size to absorb project needs with no noticeable impact. The project would not affect the permanent employment or labor force in Johnson County.

4. Business and Industrial Development. The slight increase in business activity resulting from the project would have no noticeable effect on the area. Changes in business and industrial activity during project construction would be minimal. The project would require no business relocations.

5. Farm Displacement. Approximately 1.03 acres of land classified as prime or unique farmland would be lost as a result of this project. However, no currently used farmland or any private farmland would be affected.



### C. Environmental Impacts of the Preferred Alternative.

1. Man-Made Resources. Coralville Reservoir is a man-made resource. Recreation associated with the reservoir would be enhanced by the proposed project. No adverse impacts would occur.

2. Natural Resources. The proposed access road and parking lots would displace approximately .6 of an acre of restored prairie and 1.3 acres of old field habitat. A small number of trees also would be lost at the north end of the road alignment. Wildlife would be adversely affected by the increase in human activity caused by the project. The road, which would bisect the prairie and old field habitat, would particularly hinder prairie species moving from one side to the other. Wildlife associated with the edge habitat of the forest-open areas would be farther away and less affected. No prime or unique habitat exists within the project area, and 5 acres of additional prairie are to be planted within the reservoir boundaries in 1988. No significant impacts to natural resources are anticipated.

3. Air Quality. Minor, temporary impacts from dust and exhaust of machinery would occur during construction.

4. Water Quality. Minor, temporary increases in turbidity from runoff of disturbed ground at the construction site may occur.

5. Endangered Species. There are three federally listed threatened and endangered species listed for Johnson County, Iowa: the bald eagle (Haliaeetus leucocephalus), the peregrine falcon (Falco peregrinus) and the fat pocketbook pearly mussel (Potamilus capax).

The bald eagles use large trees along the shoreline area near open water during the winter months as resting and feeding perches. No potential perches would be affected by the proposed project; therefore, no impacts to the bald eagle are expected.

The peregrine falcon is listed as having potential breeding areas in Johnson County, although now there are no current active breeding sites in Iowa. No prime or unique habitat exists for the peregrine falcon at the proposed project site, and no impacts are anticipated.

The fat pocketbook pearly mussel is listed as occurring in the Iowa River. No construction would occur within the river or other aquatic habitats; therefore, no impacts should occur.

### VI. ENVIRONMENTAL IMPACTS OF NONPREFERRED ALTERNATIVE.

No Federal Action. No impacts from construction activities would occur. The benefits from the alleviation of traffic congestion and associated safety hazards also would not be realized.

VII. PROBABLE ADVERSE ENVIRONMENTAL EFFECTS WHICH CANNOT BE AVOIDED.

Exhaust and dust emissions from construction equipment would be unavoidable. Vegetative losses at the project site also would be unavoidable.

VIII. RELATIONSHIP BETWEEN SHORT-TERM USE OF MAN'S ENVIRONMENT AND THE MAINTENANCE AND ENHANCEMENT OF LONG-TERM PRODUCTIVITY.

Construction of the project would cause an initial loss of vegetation; however, no significant long-term changes to the environment would occur.

IX. ANY IRREVERSIBLE OR IRRETRIEVABLE COMMITMENTS OF RESOURCES WHICH WOULD BE INVOLVED IF THE PROPOSED PROJECT SHOULD BE IMPLEMENTED.

The purchase of materials and commitment of manhours, fuel, and machinery to perform the project would be irretrievable.

X. RELATIONSHIP OF THE PROPOSED PROJECT TO LAND-USE PLANS.

Federal lands at Coralville Reservoir are zoned under a Resource Master Plan dated April 1977. The current zoning of the project area is for recreation-intensive use. The proposed project is designed to provide access to a public use recreation site and is not in conflict with any land-use plans.

XI. COMPLIANCE WITH ENVIRONMENTAL QUALITY STATUTES.

A summary of compliance can be found in table EA-2.

A. Endangered Species. As discussed previously, three federally listed endangered species occur within Johnson County, Iowa: the bald eagle (Haliaeetus leucocephalus), the peregrine falcon (Falco peregrinus), and the fat pocketbook pearly mussel (Potamilus capax). A coordination letter has been sent to the U.S. Fish and Wildlife Service regarding endangered species. At this time, no impacts are anticipated.

B. Cultural Resources. The proposed project area has been previously surveyed and is reported in a document entitled, The Archaeology of Coralville Lake, Iowa, Volume III: Sample Survey, prepared by Dr. David Overstreet of Great Lakes Archaeological Research Center. No significant historic properties were identified in the project area. Therefore, the proposed project may proceed in full compliance with the National Historic Preservation Act and other cultural resource legislation.

TABLE EA-2

Relationship of Plans to Environmental Protection  
Statutes and Other Environmental Requirements

Federal Policies	Compliance
Archeological and Historic Preservation Act, 16 U.S.C. 469, et seq.	Full Compliance
Clean Air Act, as amended, 42 U.S.C. 1857h-7, et seq.	Full Compliance
Clean Water Act (Federal Water Pollution Control Act), 33 U.S.C. 1251, et seq.	Full Compliance
Coastal Zone Management Act, 16 U.S.C. 1451, et seq.	Not Applicable
Endangered Species Act, 16 U.S.C. 1531, et seq.	Full Compliance
Estuary Protection Act, 16 U.S.C. 1221, et seq.	Not Applicable
Federal Water Project Recreation Act, 16 U.S.C. 460-1(12), et seq.	Full Compliance
Fish and Wildlife Coordination Act, 16 U.S.C. 611, et seq.	Full Compliance
Land and Water Conservation Fund Act, 16 U.S.C. 460/-460/-11, et seq.	Not Applicable
Marine Protection, Research and Sanctuary Act, 33 U.S.C. 1401, et seq.	Not Applicable
National Environmental Policy Act, 42 U.S.C. 4321, et seq.	Full Compliance
National Historic Preservation Act, 16 U.S.C. 470a, et seq.	Full Compliance
Rivers and Harbors Act, 33 U.S.C. 403, et seq.	Full Compliance
Watershed Protection and Flood Prevention Act, 16 U.S.C. 1001, et seq.	Not Applicable
Wild and Scenic Rivers Act, 16 U.S.C. 1271, et seq.	Not Applicable

## NOTES

a. Full Compliance. Having met all requirements of the statute for the current stage of planning (either preauthorization or postauthorization).

b. Partial Compliance. Not having met some of the requirements that normally are met in the current stage of planning. Partial compliance entries should be explained in appropriate places in the report and referenced in the table.

c. Noncompliance. Violation of a requirement of the statute. Noncompliance entries should be explained in appropriate places in the report and referenced in the table.

d. Not Applicable. No requirements for the statute required compliance for the current stage of planning.

C. Federal Water Project Recreation Act. The proposed project would not affect water resources, but is intended to enhance recreation at Coralville Reservoir.

D. Fish and Wildlife Coordination Act. Coordination letters explaining the project have been sent to the U.S. Fish and Wildlife Service (FWS) and the Iowa Department of Natural Resources (IDNR). A meeting held with FWS personnel concluded that the proposed project would have no significant impacts on fish and wildlife resources. Telephone conversations with members of the IDNR also were held, where concerns were raised about the potential for increased human disturbances to nesting wild turkeys within the area. However, the access road itself will guide people to the day use area, which is close to the reservoir's shoreline and farther away from the major wooded areas. This project is not anticipated to significantly affect overall public access to the general vicinity of the Sugar Bottom area. Therefore, no significant impacts to fish or wildlife resources are anticipated at this time.

E. Wild and Scenic Rivers Act. There are no wild or scenic rivers within the project areas.

F. Executive Order 11988, Flood Plain Management. The proposed road and parking lots would be located above the floodplain. No significant impacts to floodplain management would occur.

G. Executive Order 11990, Protection of Wetlands. No wetlands would be adversely affected by this project.

H. Clean Water Act. There will be no discharge of dredged or fill materials into any waters. No significant impacts to water quality are anticipated.

I. Clean Air Act. Minor, temporary impacts of increased dust and exhaust will occur during construction. No air quality standards should be violated.

J. Farmland Protection Policy Act. Coordination with the district conservationist of the Soil Conservation Service has indicated that 1.03 acres of prime and unique farmland would be affected. However, no practical alternative exists, and significant impacts are not anticipated. Therefore, this project is in compliance with this act.

## XII. CONCLUSIONS.

The proposed project would involve construction of an approximate 2,800-foot-long access road and two parking lots. The road will bypass the Sugar Bottom Campground, allowing direct access to the day use area. Traffic congestion and the associated safety hazards would be relieved. No significant impacts are anticipated as a result of the proposed project.

FINDING OF NO SIGNIFICANT IMPACT  
FOR  
SUGAR BOTTOM DAY USE ACCESS ROAD  
CORALVILLE RESERVOIR  
JOHNSON COUNTY, IOWA

Having reviewed the information provided by this Environmental Assessment, along with data obtained from cooperating Federal, State and local agencies and from the interested public, I find that the proposed access road and parking lots at Coralville Reservoir will not significantly affect the quality of the environment. Therefore, it is my determination that an Environmental Impact Statement is not required. This determination will be reevaluated if warranted by later developments.

Along with the preferred action, the No Federal Action alternative was considered.

Factors considered in making a determination that an Environmental Impact Statement was not required are as follows:

- a. Negative impacts to restored prairie would be offset by future plantings of similar habitat at the reservoir.
- b. Traffic congestion and safety hazards would be reduced.
- c. No significant social, economic, environmental, or cultural impacts are anticipated as a result of this action.

---

Date

Neil A. Smart  
Colonel, U.S. Army  
District Engineer

PERTINENT CORRESPONDENCE

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## U.S. Department of Agriculture

## FARMLAND CONVERSION IMPACT RATING

<b>PART I (To be completed by Federal Agency)</b>		Date Of Land Evaluation Request 9 October 1987	
Name Of Project Coralville Reservoir, Sugar Bottom Day Use Road		Federal Agency Involved U.S. Army Corps of Engineers	
Proposed Land Use Access Road		County And State Johnson County, Iowa	
<b>PART II (To be completed by SCS)</b>		Date Request Received By SCS 10-13-1987	
Does the site contain prime, unique, statewide or local important farmland? (If no, the FPPA does not apply - do not complete additional parts of this form).		Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Acres Irrigated <input type="checkbox"/> Average Farm Size - 223
Major Crop(s) Corn	Farmable Land In Govt. Jurisdiction Acres: 344082 % 87	Amount Of Farmland As Defined in FPPA Acres: 205632 % 52	
Name Of Land Evaluation System Used Johnson Co	Name Of Local Site Assessment System None FPPA	Date Land Evaluation Returned By SCS 10-14-1987	
<b>PART III (To be completed by Federal Agency)</b>		Alternative Site Rating	
		Site A	Site B Site C Site D
A. Total Acres To Be Converted Directly		1.9	
B. Total Acres To Be Converted Indirectly		-	
C. Total Acres In Site		1.9	
<b>PART IV (To be completed by SCS) Land Evaluation Information</b>			
A. Total Acres Prime And Unique Farmland		1.03	
B. Total Acres Statewide And Local Important Farmland		0	
C. Percentage Of Farmland In County Or Local Govt. Unit To Be Converted		1.01	
D. Percentage Of Farmland In Govt. Jurisdiction With Same Or Higher Relative Value		33	
<b>PART V (To be completed by SCS) Land Evaluation Criterion</b>			
Relative Value Of Farmland To Be Converted (Scale of 0 to 100 Points)		85	
<b>PART VI (To be completed by Federal Agency)</b>			
Site Assessment Criteria (These criteria are explained in 7 CFR 658.5(b))	Maximum Points		
1. Area In Nonurban Use	15	15	
2. Perimeter In Nonurban Use	10	10	
3. Percent Of Site Being Farmed	20	0	
4. Protection Provided By State And Local Government	20	0	
5. Distance From Urban Buildup Area	15	15	
6. Distance To Urban Support Services	15	15	
7. Size Of Present Farm Unit Compared To Average	10	0	
8. Creation Of Nonfarmable Farmland	10	0	
9. Availability Of Farm Support Services	5	4	
10. On-Farm Investments	20	0	
11. Effects Of Conversion On Farm Support Services	10	0	
12. Compatibility With Existing Agricultural Use	10	0	
TOTAL SITE ASSESSMENT POINTS	160	59	
<b>PART VII (To be completed by Federal Agency)</b>			
Relative Value Of Farmland (From Part V)	100	85	
Total Site Assessment (From Part VI above or a local site assessment)	160	59	
TOTAL POINTS (Total of above 2 lines)	260	144	

Site Selected:

Date Of Selection

Was A Local Site Assessment Used?  
Yes ☐ No ☐

Reason For Selection:

The proposed road alignment (site A) provides the most practical route to the day use area. No alternative sites have been identified.



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

REGION VII  
726 MINNESOTA AVENUE  
KANSAS CITY, KANSAS 66101

November 3, 1987

Mr. Dudley M. Hanson, P.E.  
Chief, Planning Division  
U.S. Army Engineer District, Rock Island  
Clock Tower Bldg.- P.O. Box 2004  
Rock Island, Illinois 61204-2004

Dear Mr. Hanson:

RE: Coralville Reservoir, Sugar Bottom Recreation Area Day Use  
Access Road

In accordance with our responsibilities under the National Environmental Policy Act, and Section 309 of the Clean Air Act, we have reviewed the above-referenced proposal. Based on the information provided, the Environmental Protection Agency has no objection to implementation of the project as planned.

Thank you for the opportunity to review and comment on this action.

Sincerely yours,

A handwritten signature in cursive script, appearing to read "B. Katherine Biggs".

B. Katherine Biggs  
Chief, Environmental Review Branch



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1830 SECOND AVE. - 2ND FLOOR, ROCK ISLAND, IL 61201

STATE CONSERVATIONIST, SOIL CONSERVATION SERVICE USDA  
693 FEDERAL BLDG, 210 WALNUT STREET  
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IOWA CITY, IA 52240

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WALLACE STATE OFFICE BLDG, 900 EAST GRAND AVENUE  
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